

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: September 16, 2002, 21:43:49 ; Search time 85.23 Seconds

(without alignments)
5167.440 Million cell updates/sec

Title: US-09-719-017A-2

Perfect score: 1793

Sequence: 1 gaattccctgttgacacatta.....caattaccacatgcccgagg 1793

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA:*

1: /cgn2_6/ptodata/2/1na/5A_COMB.seq:*

2: /cgn2_6/ptodata/2/1na/5B_COMB.seq:*

3: /cgn2_6/ptodata/2/1na/6A_COMB.seq:*

4: /cgn2_6/ptodata/2/1na/6B_COMB.seq:*

5: /cgn2_6/ptodata/2/1na/PCFUS_COMB.seq:*

6: /cgn2_6/ptodata/2/1na/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed.
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	404	22.5	5096	1 US-08-106-433A-3	Sequence 3, Appli
2	404	22.5	5110	1 US-08-106-433A-4	Sequence 4, Appli
3	404	22.5	5110	1 US-08-106-433A-5	Sequence 5, Appli
4	404	22.5	5110	1 US-08-106-433A-6	Sequence 6, Appli
5	404	22.5	5110	1 US-08-106-433A-7	Sequence 7, Appli
6	404	22.5	5110	1 US-08-106-433A-8	Sequence 8, Appli
7	404	22.5	5110	1 US-08-106-433A-9	Sequence 9, Appli
8	404	22.5	5110	1 US-08-106-433A-10	Sequence 10, Appli
9	404	22.5	5110	1 US-08-106-433A-11	Sequence 11, Appli
10	404	22.5	5110	1 US-08-106-433A-12	Sequence 12, Appli
11	404	22.5	5110	1 US-08-106-433A-13	Sequence 13, Appli
12	404	22.5	5110	1 US-08-106-433A-14	Sequence 14, Appli
13	404	22.5	5110	1 US-08-106-433A-15	Sequence 15, Appli
14	332.8	18.6	4476	3 US-08-801-344-2	Sequence 2, Appli
15	332.8	18.6	4476	3 US-09-498-599-2	Sequence 2, Appli
16	332.8	18.6	4593	3 US-08-801-344-1	Sequence 1, Appli
17	332.8	18.6	4593	2 US-09-498-599-1	Sequence 1, Appli
18	332.8	18.6	7475	2 US-08-971-036-1	Sequence 1, Appli
19	332.8	18.6	7475	3 US-09-096-570-1	Sequence 1, Appli
20	328.6	18.3	1097	1 US-08-761-258-7	Sequence 7, Appli
21	328.6	18.3	1097	2 US-08-977-306-7	Sequence 7, Appli
22	328.6	18.3	3301	2 US-08-447-430A-42	Sequence 42, Appli
23	328.6	18.3	3423	2 US-08-447-430A-40	Sequence 40, Appli
24	328.6	18.3	3423	4 US-09-485-737B-86	Sequence 86, Appli
25	328.6	18.3	3474	2 US-08-447-430A-41	Sequence 41, Appli
26	328.6	18.3	3474	2 US-08-318-837-10	Sequence 10, Appli
27	328.6	18.3	4009	2 US-08-500-860A-2	Sequence 2, Appli

ALIGNMENTS

28	328.6	18.3	5238	6 US-08-531-601-3	Patent No. 5453363
29	328.6	18.3	6312	1 US-08-859-032-3	Sequence 3, Appli
30	328.6	18.3	6312	2 US-08-859-032-3	Sequence 3, Appli
31	328.6	18.3	8430	4 US-09-131-028A-6	Sequence 6, Appli
32	328.6	18.3	8430	4 US-09-131-028A-10	Sequence 10, Appli
33	290.8	16.2	4296	1 US-08-316-950-15	Sequence 15, Appli
34	290.8	16.2	4296	5 PCT-US95-12642-15	Sequence 15, Appli
35	290.8	16.2	4352	1 US-08-316-950-16	Sequence 16, Appli
36	290.8	16.2	4352	5 PCT-US95-12642-16	Sequence 16, Appli
37	290.8	16.2	6047	1 US-08-316-950-12	Sequence 12, Appli
38	290.8	16.2	6047	5 PCT-US95-12642-12	Sequence 12, Appli
39	267.4	14.9	1035	2 US-08-690-493-2	Sequence 2, Appli
40	267.4	14.9	1200	2 US-08-690-493-3	Sequence 3, Appli
41	225.2	12.6	665	4 US-09-214-214A-12	Sequence 12, Appli
42	225.2	12.6	665	4 US-09-255-953-9	Sequence 9, Appli
43	222.4	12.4	469	2 US-08-647-368A-1	Sequence 1, Appli
44	213.2	11.9	663	4 US-09-214-214A-11	Sequence 11, Appli
45	213.2	11.9	663	4 US-09-255-953-8	Sequence 8, Appli

RESULT 1
US-08-106-433A-3
Sequence 3, Application US/08106433A
Patent No. 5385834
GENERAL INFORMATION:
APPLICANT: Richard A. Ikeda
TITLE OF INVENTION: Mutant T7 RNA Polymerase GPI(Lys222)
TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Deveau, Colton, and Marquis
STREET: Two Midtown Plaza, Suite 1400,
STREET: 1360 Peachtree St., NE
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 7.1
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/106,433A
FILING DATE: 08/13/93
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: No. 5385834 Applicable
FILING DATE: No. 5385834 Applicable
ATTORNEY/AGENT INFORMATION:
NAME: Deveau, Colton, and Marquis
NAME: Colton, Laurence P.
REGISTRATION NUMBER: Reg. No. 5385834 33,371
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-875-8505
TELEFAX: 404-875-8817
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 5096 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: other nucleic acid
HYPOTHETICAL: No
ANTI-SENSE: No
FRAGMENT TYPE: No. 5385834 applicable
ORIGINAL SOURCE:
ORGANISM: No. 5385834 applicable
STRAIN: No. 5385834 applicable

INDIVIDUAL ISOLATE: No. 5385834 applicable
DEVELOPMENTAL STAGE: No. 5385834 applicable
HAPLOTYPE: No. 5385834 applicable
TISSUE TYPE: No. 5385834 applicable
CELL TYPE: No. 5385834 applicable
ORGANELLE: No. 5385834 applicable
IMMEDIATE SOURCE:
LIBRARY: No. 5385834 applicable
CLONE: PKR232-8
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
FEATURE:
NAME/KEY: Cloning polylinker located between
NAME/KEY: nucleotides 177 and 212 and in front of a
NAME/KEY: promoterless chloramphenicol acetyl transferase
NAME/KEY:
LOCATION: 177 to 212
IDENTIFICATION METHOD: The sequence was provided by
IDENTIFICATION METHOD: Pharmacia Biotech, Oct. 1989
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS: Brosius, J. and Lupski, J. R.
TITLE:
JOURNAL: Methods in Enzymology
VOLUME: 153
ISSUE:
PAGES: 54-68
DATE: 1987
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO: 1 to 5096
US-08-106-433A-3

Query Match 22.5%; Score 404; DB 1; Length 5096;
Best Local Similarity 96.5%; Pred. No. 8.9e-91;
Matches 413; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
QY 1267 agagtcgacgtcgaagcgaagcttggtccacctgacccatgcgaactcaagaag 1326
DB 1237 ACAATTTCCTGGCGGCTAGCGCGGCTGCTCCACCTGACCCGCACTCAGAG 1296
QY 1327 tgaagcgcgtgagcgcgaatgtagtgcgtgcgtccatcgagagtaaggaaactgcc 1386
DB 1297 TGAAGCGCGCTAGCGCGGCTAGCTGTGGGTCTCCATCGAGAGTAAAGGAAGTCCG 1356
QY 1387 aggcatacaataaagcgaagcctcagtcgaagacgtggccttcgtttatctgtgt 1446
DB 1357 AGGCATCAAAATAAAGCAAGGCTCAGTCGAAAGACTGGGCTTTCGTTTATCTGTGT 1416
QY 1447 tctgtgcgtgaagcgtctccttgtagtagcaaaatccgcgagagagatttgaagcttgcg 1506
DB 1417 TTGTGCGGTGAAGCGCTCTCTGAGTAGGACAAATCCGCGGAGCGGATTGAAACGTTGCG 1476
QY 1507 aagcaagcgcgcgagaggtgtgcgagcagcgcgcgaataaactccagagatcaaat 1566
DB 1477 AAGCAAGCGCGGAGGCTGAGGCGGAGGAGCCCGCCATAAAGTCCAGGATCAAAATT 1536
QY 1567 aagcagaagcgcacccctgaagcgtgcttctgcgttcttaaaacttccctgtctgc 1626
DB 1537 AAGCAGAAGGCGCATCTGACGAGTGGCCTTTTGGCTTCTACAAACTCTCTGCTGCTC 1596
QY 1627 aatcttaagcgcaccccccacagataagcgttaactagcctcgttttgatcagggaaa 1686
DB 1597 AATATCTACAGGCGCATCCGCCACAGATAGGTAAACTAGCTCTGTTTGTGATCAGAGAAA 1656
QY 1687 gcaagctat 1694
DB 1657 GCAGCTGT 1664

RESULT 2
US-08-106-433A-4
Sequence 4, Application US/08106433A
Patent No. 5385834
GENERAL INFORMATION:
APPLICANT: Richard A. Ikeda
TITLE OF INVENTION: Mutant T7 RNA Polymerase GP(Lys222)
TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Deveau, Colton, and Marquis
STREET: Two Midtown Plaza, Suite 1400,
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB Storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 7.1
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/106,433A
FILING DATE: 08/13/93
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: No. 5385834 Applicable
FILING DATE: No. 5385834 Applicable
ATTORNEY/AGENT INFORMATION:
NAME: Deveau, Colton, and Marquis
NAME: Colton, Laurence P.
REGISTRATION NUMBER: Reg. No. 5385834 33,371
REFERENCE/DOCKET NUMBER: 10733-161
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-875-8817
TELEFAX: 404-875-8505
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 5110 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: other nucleic acid
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: No. 5385834 applicable
ORIGINAL SOURCE:
ORGANISM: No. 5385834 applicable
STRAIN: No. 5385834 applicable
INDIVIDUAL ISOLATE: No. 5385834 applicable
DEVELOPMENTAL STAGE: No. 5385834 applicable
HAPLOTYPE: No. 5385834 applicable
TISSUE TYPE: No. 5385834 applicable
CELL TYPE: No. 5385834 applicable
ORGANELLE: No. 5385834 applicable
IMMEDIATE SOURCE:
LIBRARY: No. 5385834 applicable
CLONE: PCM-X#
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
FEATURE:
NAME/KEY: Potential T7 promoter located between
NAME/KEY: nucleotides 198 and 220 and in front of a
NAME/KEY: promoterless chloramphenicol acetyl transferase
NAME/KEY:
LOCATION: 198 to 220
IDENTIFICATION METHOD: The general clone was constructed from PKR232-8 and
OTHER INFORMATION: If the potential T7 promoter between positions 198 and
PUBLICATION INFORMATION:

AUTHORS: Ikeda, R.A., Chang, L.L., and Marshamano, G.S.
TITLE: Selection and Characterization of a Mutant T7
TITLE: RNA Polymerase that Recognizes an Expanded Range
TITLE: of T7-Like Promoters
JOURNAL: Biochemistry
VOLUME: 32
ISSUE: 35
PAGES: 9115-9124
DATE: Sept. 7, 1993
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110
US-08-106-433A-4

Query Match 22.5% Score 404; DB 1; Length 5110;
Best Local Similarity 96.5%; Pred. No. 8.9e-91;
Matches 413; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 1267 agagtcgacccgcaagctgcaagctgtcccaacccatgccaacccaagaag 1326
Db 1251 AGAATTGGCTGGCGGAGTACGGCGGTGTCCACCTGACCCCATCGCACTAGAAG 1310
Qy 1327 tgaagcgcgtagcgcgcatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1386
Db 1311 TGAACGCGCTGAGCCGCTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1370
Qy 1387 aggcataaataaagcaagctcagtcgaagctgagctgtgtgtgtgtgtgtgt 1446
Db 1371 AGGCTCAATAAAGCAAGGCTCAGTCGAAGACTGGGCTTGTGTGTGTGTGTGTGT 1430
Qy 1447 ttgtgtgtaaacgctctctctgtaggaacaatccgcgagagcgatltgaacgttgcg 1506
Db 1431 TTGTGGTGAACGCTCTCTCTGAGTGAACAATCCGCGGAGCGGATTTGAACGTTCG 1490
Qy 1507 aagcaagcgcgagaggtgtgcgagcaagagccgcacataactgcagcatcaatt 1566
Db 1491 AAGCAACGCGCGGAGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1550
Qy 1567 aagcaagagcgcacatcctcagcatgagccttttgcttctcaaaccttctctgtc 1626
Db 1551 AAGCAAGAGGCGCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1610
Qy 1627 atatctaacagcaccacccacagatacagtaaacatagcctgttttgcatacgaaga 1686
Db 1611 ATATCTACAGCATCCGCCACAGATAGGTAACTAGCTGTTTTCATCAGAGAA 1670
Qy 1687 gcagcatat 1694
Db 1671 GCAGCTGT 1678

RESULT 3

US-08-106-433A-5
Sequence 5, Application US/08106433A
Patent No. 5385834
GENERAL INFORMATION:
APPLICANT: Richard A. Ikeda
TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222)
TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Deveau, Colton, and Marquis
STREET: Two Midtown Plaza, Suite 1400,
STREET: 1360 Peachtree St., NE
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 7.1
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/106.433A
FILING DATE: 08/13/93
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: No. 5385834 Applicable
FILING DATE: No. 5385834 Applicable
ATTORNEY/AGENT INFORMATION:
NAME: Deveau, Colton, and Marquis
REGISTRATION NUMBER: Reg. No. 5385834 33,371
REFERENCE/DOCKET NUMBER: 10733-161
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-875-8817
TELEFAX: 404-875-8505
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5110 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: other nucleic acid
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: No. 5385834 applicable
ORIGINAL SOURCE:
ORGANISM: No. 5385834 applicable
STRAIN: No. 5385834 applicable
INDIVIDUAL ISOLATE: No. 5385834 applicable
DEVELOPMENTAL STAGE: No. 5385834 applicable
HAPLOTYPE: No. 5385834 applicable
TISSUE TYPE: No. 5385834 applicable
CELL TYPE: No. 5385834 applicable
ORGANELLE: No. 5385834 applicable
IMMEDIATE SOURCE:
LIBRARY: No. 5385834 applicable
CLONE: pCAT10-1
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
FEATURE:
NAME/KEY: T7 promoter f10 located between nucleotides
NAME/KEY: 198 and 220 and in front of a promoterless
NAME/KEY: chloramphenicol acetyl transferase (CAT) gene.
LOCATION: 198 to 220
IDENTIFICATION METHOD: The clone was constructed from
IDENTIFICATION METHOD: PKK32-8 and the inserted "promoter" was sequenced.
OTHER INFORMATION: The T7 promoter between positions 198 and 220 is recogn
PUBLICATION INFORMATION:
AUTHORS: Ikeda, R.A., Chang, L.L., and Marshamano, G.S.
TITLE: Selection and Characterization of a Mutant T7
TITLE: RNA Polymerase that Recognizes an Expanded Range
TITLE: of T7-Like Promoters
JOURNAL: Biochemistry
VOLUME: 32
ISSUE: 35
PAGES: 9115-9124
DATE: Sept. 7, 1993
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110
US-08-106-433A-5

OY 1507 aagcaagcggccggagggtgagcagagccgcctaaactgcccagcatcaatt 1566
 DB 1491 AAGCAACGGCCGGAGGGTGGCGGAGAGCCGCCCATTAACCTGACAGGATCAAAATT 1550
 OY 1567 aagcagaagccatctgacggatgaccttttgcgtttctacaactcttcctgctc 1626
 DB 1551 AAGCAGAAGCCATCTGACGATGGCCCTTTTGGCTTTCTACAACCTCTTCGTCGTC 1610
 OY 1627 atatctacaagccatccccccacagatacgttaactagctcgttttgcacagaa 1686
 DB 1611 ATATCTACAAGCCATCCGCCACAGATAGGTAACCTGCTTTTGCATCAGAGAA 1670
 OY 1687 gcaagctat 1694
 DB 1671 GCAGCTGT 1678

RESULT 5
 US-08-106-433A-7
 ; Sequence 7, Application US/08106433A
 ; Patent No. 5385834
 ; GENERAL INFORMATION:
 ; APPLICANT: Richard A. Ikeda
 ; TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222)
 ; TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
 ; NUMBER OF SEQUENCES: 23
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Deveau, Colton, and Marquis
 ; STREET: Two Midtown Plaza, Suite 1400,
 ; CITY: Atlanta
 ; STATE: Georgia
 ; COUNTRY: USA
 ; ZIP: 30309
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage
 ; COMPUTER: Apple Macintosh
 ; OPERATING SYSTEM: McIntosh 7.1
 ; SOFTWARE: Microsoft Word 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/106.433A
 ; FILING DATE: 08/13/93
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: No. 5385834 Applicable
 ; FILING DATE: No. 5385834 Applicable
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Deveau, Colton, and Marquis
 ; REGISTRATION NUMBER: Reg. No. 5385834 33,371
 ; REFERENCE/DOCKET NUMBER: 10733-161
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 404-875-8817
 ; TELEFAX: 404-875-8505
 ; INFORMATION FOR SEQ ID NO: 7:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 5110 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: circular
 ; MOLECULE TYPE: other nucleic acid
 ; HYPOTHETICAL: NO
 ; ANTI-SENSE: NO
 ; FRAGMENT TYPE: NO. 5385834 applicable
 ; ORIGINAL SOURCE:
 ; ORGANISM: No. 5385834 applicable
 ; STRAIN: No. 5385834 applicable
 ; INDIVIDUAL ISOLATE: No. 5385834 applicable
 ; DEVELOPMENTAL STAGE: No. 5385834 applicable
 ; HAPLOTYPE: No. 5385834 applicable
 ; TISSUE TYPE: No. 5385834 applicable
 ; CELL TYPE: No. 5385834 applicable

; ORGANELLE: No. 5385834 applicable
 ; IMMEDIATE SOURCE:
 ; LIBRARY: No. 5385834 applicable
 ; CLONE: pCM-p1160
 ; POSITION IN GENOME:
 ; CHROMOSOME/SEGMENT: No. 5385834 applicable
 ; MAP POSITION: No. 5385834 applicable
 ; UNITS: No. 5385834 applicable
 ; FEATURE:
 ; NAME/KEY: Inactive T7 f10 promoter mutant (-9C to G) located between nucle
 ; LOCATION: 198 to 220
 ; IDENTIFICATION METHOD: The clone was constructed from
 ; IDENTIFICATION METHOD: PKR232-8 and the inserted "promoter" was sequenced.
 ; OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220
 ; PUBLICATION INFORMATION:
 ; AUTHORS: Ikeda, R.A., Chang, L.L., and Warshamane, G.S.
 ; TITLE: Selection and Characterization of a Mutant T7
 ; TITLE: RNA Polymerase that Recognizes an Expanded Range
 ; TITLE: of T7-like Promoters
 ; JOURNAL: Biochemistry
 ; VOLUME: 32
 ; ISSUE: 35
 ; PAGES: 9115-9124
 ; DATE: Sept. 7, 1993
 ; DOCUMENT NUMBER:
 ; FILING DATE:
 ; PUBLICATION DATE:
 ; DOCUMENT NUMBER:
 ; FILING DATE:
 ; PUBLICATION DATE:
 ; RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110
 ; US-08-106-433A-7

Query Match 22.5%; Score 404; DB 1; Length 5110;
 Best Local Similarity 96.5%; Pred. No. 8.9e-91;
 Matches 413; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

OY 1267 agagtcgacctgcaagcagcagcttggttccaccctgacccatgcccgaactagaag 1326
 DB 1251 AGAATTTGGCTGGCGGAGTAGCGGCGGTGTCACCTGACCCCGCAACTCAGAG 1310
 OY 1327 tgaagcccgtagcgcgatgtagtggggtctcccatcgagatgaaggaactgcc 1386
 DB 1311 TGAAGCGCCGTAGCGCCGATGCTAGTGAGGCTTCCCATCGAGATGAGGAACCTGCC 1370
 OY 1387 aggcatacaataaagcagaagcgtcagtcgaaagactggacctgtttatctgtgt 1446
 DB 1371 AGCATCAAAATTAAGGAAGAGCTCAGTGAAGAGCTGGGCTTTGTTTATCTGTGT 1430
 OY 1447 ttgtcgttgaagcgtctctctgtagtaggaacaatccgcggagagcgattgaagctgcg 1506
 DB 1431 TTGTGCTGAAGAGCTCTCTCTGAGTAGCAAAATCCGCGGAGCGGATTTGAACTTTCG 1490
 OY 1507 aagcaagcggccggagggttggcgagcagagccgcgcctaaactgccaagcatcaatt 1566
 DB 1491 AAGCAACGGCCGGAGGGTGGCGGAGAGCCGCCCATTAACCTGACAGGATCAAAATT 1550
 OY 1567 aagcagaagccatctgacggatgaccttttgcgtttctacaactcttcctgctc 1626
 DB 1551 AAGCAGAAGCCATCTGACGATGGCCCTTTTGGCTTTCTACAACCTCTTCGTCGTC 1610
 OY 1627 atatctacaagccatccccccacagatacgttaactagctcgttttgcacagaa 1686
 DB 1611 ATATCTACAAGCCATCCGCCACAGATAGGTAACCTGCTTTTGCATCAGAGAA 1670
 OY 1687 gcaagctat 1694
 DB 1671 GCAGCTGT 1678

RESULT 6
 US-08-106-433A-8

: Sequence 8, Application US/08106433A
 : Patent No. 5385834
 :
 : GENERAL INFORMATION:
 : APPLICANT: Richard A. Ikeda
 : TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222)
 : TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
 : NUMBER OF SEQUENCES: 23
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Deveau, Colton, and Marquis
 : STREET: Two Midtown Plaza, Suite 1400,
 : STREET: 1360 Peachtree St., NE
 : CITY: Atlanta
 : STATE: Georgia
 : COUNTRY: USA
 : ZIP: 30309
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette, 3.50 Inch, 1.4 MB Storage
 : COMPUTER: Apple Macintosh
 : OPERATING SYSTEM: Macintosh 7.1
 : SOFTWARE: Microsoft word 5.1
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/106,433A
 : FILING DATE: 08/13/93
 : CLASSIFICATION: 435
 :
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: No. 5385834 Applicable
 : FILING DATE: No. 5385834 Applicable
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Deveau, Colton, and Marquis
 : NAME: Colton, Laurence P.
 : REGISTRATION NUMBER: Reg. No. 5385834 33,371
 : REFERENCE/DOCKET NUMBER: 10733-161
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: 404-875-8817
 : TELEFAX: 404-875-8505
 :
 : INFORMATION FOR SEQ ID NO: 8:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 5110 base pairs
 : TYPE: nucleic acid
 : STRANDEDNESS: double
 : TOPOLOGY: circular
 : MOLECULE TYPE: other nucleic acid
 : HYPOTHEetical: NO
 : ANTI-SENSE: NO
 : FRAGMENT TYPE: NO. 5385834 applicable
 : ORIGINAL SOURCE:
 : ORGANISM: NO. 5385834 applicable
 : STRAIN: NO. 5385834 applicable
 : INDIVIDUAL ISOLATE: NO. 5385834 applicable
 : DEVELOPMENTAL STAGE: NO. 5385834 applicable
 : HAPLOTYPE: NO. 5385834 applicable
 : TISSUE TYPE: NO. 5385834 applicable
 : CELL TYPE: NO. 5385834 applicable
 : ORGANELLER: NO. 5385834 applicable
 : IMMEDIATE SOURCE:
 : LIBRARY: NO. 5385834 applicable
 : CLONE: PCM-T270
 : POSITION IN GENOME:
 : CHROMOSOME/SEGMENT: NO. 5385834 applicable
 : MAP POSITION: NO. 5385834 applicable
 : UNITS: NO. 5385834 applicable
 :
 : FEATURE:
 : NAME/KEY: Inactive T7 F10 promoter mutant (-9C to A) located between nucle
 : LOCATION: 198 to 220
 : IDENTIFICATION METHOD: The clone was constructed from
 : IDENTIFICATION METHOD: pKR32-8 and the inserted "promoter" was sequenced.
 : OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220
 : PUBLICATION INFORMATION:
 : AUTHORS: Ikeda, R.A., Chang, L.L., and Warhamana, G.S.
 : TITLE: Selection and Characterization of a Mutant T7
 : TITLE: RNA Polymerase that Recognizes an Expanded Range
 : TITLE: of T7-like Promoters
 : JOURNAL: Biochemistry

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: VOLUME: 32
: ISSUE: 35
: PAGES: 9115-9124
: DATE: Sept. 7, 1993
: DOCUMENT NUMBER:
: FILING DATE:
: PUBLICATION DATE:
: DOCUMENT NUMBER:
: FILING DATE:
: PUBLICATION DATE:
: RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110
:
: JS-08-106-433A-8

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Query Match: 22.5%; Score 404; DB 1; Length 5110;
Best Local Similarity 96.5%; Pred. No. 8,9e-91;
Matches 413; Conservative 0; Mismatches 15; Indels 0; Gaps 0.

QY 1267 agagtcgacctgcaagcatgtcaagcttggttcccaactgaccccatgcccgaactcagaag 1326
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Db 1251 AGAATTTGCGTGGCGGAGTAGCGGGGTGCTCCACACTGACCCTCAATGCCGAACTCAGAAG 1310

QY 1327 tgaacgcccgttagcgccgatgttagtgggggtctcccaatgcagagatgaggaaactgpc 1386
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1311 TGAACGCGCGTAGCCCCGATGGTAGTGTGGGTCTCCCATCGAGAGTAGGGAACCTGCC 1370

QY 1387 aggcatacaataaagcgaagaaagcctcaagtcgaagaagactggcccttcgttttactgtgt 1446
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1371 AGGCATCAAAATTAAGAAAGAAAGGCTCAGTGTGAAGAAGACTGGGCTTCGTTTATCTGTGT 1430

QY 1447 ttgtgtgtgaaagcgtcctctctgtgttgagacaacttcgcggagagcgatttgaacgtttg 1506
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1431 TTGTGGTGAACGCTCTCTCTGTGATGAGCAAAATCCGCGCGGAGCGGATTGAAACGTTGGG 1490

QY 1507 aagcaacgccccgagagggtgagcgagcagagcccgcccaataacatgcagatcaaat 1566
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1491 AAGCAACGCGCCGGAGGGGTGGCGGGGAGGAGCCCGCATTAACGTGCCAGCATCAAAAT 1550

QY 1567 aagcagaagccatccctgacggaatggccttttgcgtttctcaaaacttccctgtcgc 1626
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Db 1551 AAGCGAAGAGCCATCTCTGACGAGTAGGCCCTTTTGGGTTCTCAAAACCTTCTCTGCTGC 1610

QY 1627 atatacaagccatccccccacagatacagtgaaactagccctgatttgcatacggaaa 1686
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Db 1611 ATATCTACAGGCATCCCCCCACATACGTAACTACCTCGTTTTCATCAGGAAA 1670

QY 1687 gcaagctat 1694
      ||||| |
Db 1671 GCAGCTGT 1678

RESULT 7
US-08-106-433A-9
: Sequence 9, Application US/08106433A
: Patent No. 5385834
: GENERAL INFORMATION:
: APPLICANT: Richard A. Ikeda
: TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222)
: TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
: NUMBER OF SEQUENCES: 23
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Deveau, Colton, and Marquis
: STREET: Two Midtown Plaza, Suite 1400,
: STREET: 1360 Peachtree St., NE
: CITY: Atlanta
: STATE: Georgia
: COUNTRY: USA
: ZIP: 30309
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage
: COMPUTER: Apple Macintosh
: OPERATING SYSTEM: Macintosh 7.1
: SOFTWARE: Microsoft Word 5.1

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CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/106.433A
 FILING DATE: 08/13/93
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: No. 5385834 Applicable
 FILING DATE: No. 5385834 Applicable
 ATTORNEY/AGENT INFORMATION:
 NAME: Deyeau, Colton, and Marquis
 NAME: Colton, Laurence P.
 REGISTRATION NUMBER: Reg. No. 5385834 33,371
 REFERENCE/DOCKET NUMBER: 10733-161
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 404-875-8817
 TELEFAX: 404-875-8505
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5110 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: circular
 MOLECULE TYPE: other nucleic acid
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 FRAGMENT TYPE: No. 5385834 applicable
 ORIGINAL SOURCE:
 ORGANISM: No. 5385834 applicable
 STRAIN: No. 5385834 applicable
 INDIVIDUAL ISOLATE: No. 5385834 applicable
 DEVELOPMENTAL STAGE: No. 5385834 applicable
 HAPLOTYPE: No. 5385834 applicable
 TISSUE TYPE: No. 5385834 applicable
 CELL TYPE: No. 5385834 applicable
 ORGANELLE: No. 5385834 applicable
 IMMEDIATE SOURCE:
 LIBRARY: No. 5385834 applicable
 CLONE: pcm-p1087
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT: No. 5385834 applicable
 MAP POSITION: No. 5385834 applicable
 UNITS: No. 5385834 applicable
 FEATURE:
 NAME/KEY: Inactive T7 f10 promoter mutant (-9C to T) located between nucle
 LOCATION: 198 to 220
 IDENTIFICATION METHOD: The clone was constructed from
 IDENTIFICATION METHOD: PKR232-8 and the inserted "promoter" was sequenced.
 OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220
 PUBLICATION INFORMATION:
 AUTHORS: Ikeda, R.A., Chang, L.L., and Marshana, G.S.
 TITLE: Selection and Characterization of a Mutant T7
 TITLE: RNA Polymerase that Recognizes an Expanded Range
 JOURNAL: Biochemistry
 VOLUME: 32
 ISSUE: 35
 PAGES: 9115-9124
 DATE: Sept. 7, 1993
 DOCUMENT NUMBER:
 FILING DATE:
 PUBLICATION DATE:
 RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110
 US-08-106-433A-9

Query Match	22.5%	Score 404	DB 1	Length 5110
Best Local Similarity	96.5%	Pred. No. 8.9e-91		
Matches 413	Conservative	0	Matches 15	Indels 0
Gaps				0
QY	1267	agagtcgacgcgcgcagcgtcgaagcttggtrccaccgcgaccattgcgaattcagaag	1326	

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Db 1251 AGAATTTCCTGGGCGGAGTAGAGGCGGGTGGTCCCACTACACCCATGCGGAACCTACAGAG 1310
OY 1327 tgaacgcgcglagcgcgcgaatggtagtgtgagggtcctcccaatgcgaagtaggaactgccc 1386
Db 1311 TGAAGACCCCGTAGGCGCGAGTAGGTAGTGGGGGTCTCCCATCGAGAGTAGGGAACCTGCC 1370
OY 1387 aggcataaataaacaagaaggtctcagtcgaaagacttgggccttcgtttatctgttgt 1446
Db 1371 AGGCATCAAAATAAACAAGAGGCTCAGTCGAAAGACTGGGGCTTTTCGTTTATCTGTGTGT 1430
OY 1447 ttgcgcgtlgaacgcctccctcgtagtaagacaatcgcgcggagcgcgattgaacgtgcg 1506
Db 1431 TTGTCGCTGGAACGCTCTCTCTAGTAGACAAATCCCGGGAGCGGATTTGAACTTTCG 1490
OY 1507 aagcaacgcgcgcgcggaggtggtgcggagcaagcgcgcgaataactgcgaagcatcaaat 1566
Db 1491 AAGCAACGCGCCCGAGGAGGTGGCGGACGAGCGCCCGCATTAACATGCGAGGATCAAAATT 1550
OY 1567 aagcaagaagccatcctcgaacggaatgaccttlttggtttctacaacctctcgtgcgc 1626
Db 1551 AAGCAGAAAGGCATCCGAGGAGATGGCTTTTGGCTTTCTCAAAACTCTTCCTGCTC 1610
OY 1627 atactcaagccatcccccacagaatagcgtaaactagccctgtttgacatcaggaaa 1686
Db 1611 ATATCTACAAACCATCCCGCCACAGATACGTTAACTAGCTCCTGTTTTCATCAGGAAA 1670
OY 1687 gcaagcat 1694
Db 1671 GCAGCTGT 1678

RESULT 8
; Sequence 10, Application US/08106433A
; Patent No. 5385834
GENERAL INFORMATION:
APPLICANT: Richard A. Ireda
TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222)
TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Deyeau, Colton, and Marquis
STREET: Two Midtown Plaza, Suite 1400,
STREET: 1360 Peachtree St., NE
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: McIntosh 7.1
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/106,433A
FILING DATE: 08/13/93
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: No. 5385834 Applicable
FILING DATE: No. 5385834 Applicable
ATTORNEY/AGENT INFORMATION:
NAME: Deyeau, Colton, and Marquis
NAME: Colton, Laurence P.
REGISTRATION NUMBER: Reg. No. 5385834 33, 371
REFERENCE/DOCKET NUMBER: 10733-161
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-875-8817
TELEFAX: 404-875-8505
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 5110 base pairs
TYPE: nucleic acid
STRANDEDNESS: double

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1  RESULT      8
2  US-08-106-433A-10
3  : Sequence 10 Application US/08106433A
4  : Patent No. 5385834
5  : GENERAL INFORMATION:
6  : APPLICANT: Richard A. Ikeda
7  : TITLE OF INVENTION: Mutant T7 RNA Polymerase Gp1(Ty5222)
8  : TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
9  : NUMBER OF SEQUENCES: 23
10 : CORRESPONDENCE ADDRESS:
11 : ADDRESSEE: Deveau, Colton, and Marquis
12 : STREET: Two Midtown Plaza, Suite 1400,
13 : STREET: 1360 Peachtree St., NE
14 : CITY: Atlanta
15 : STATE: Georgia
16 : COUNTRY: USA
17 : ZIP: 30309
18 : COMPUTER READABLE FORM:
19 : MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage
20 : COMPUTER: Apple Macintosh
21 : OPERATING SYSTEM: Macintosh 7.1
22 : SOFTWARE: Microsoft Word 5.1
23 : CURRENT APPLICATION DATA:
24 : APPLICATION NUMBER: US/08/106,433A
25 : FILING DATE: 08/13/93
26 : CLASSIFICATION: 435
27 : PRIOR APPLICATION DATA:
28 : APPLICATION NUMBER: No. 5385834 Applicable
29 : FILING DATE: No. 5385834 Applicable
30 : ATTORNEY/AGENT INFORMATION:
31 : NAME: Deveau, Colton, and Marquis
32 : NAME: Colton, Laurence P.
33 : REGISTRATION NUMBER: Reg. No. 5385834 33,371
34 : REFERENCE/DOCKET NUMBER: 10733-161
35 : TELECOMMUNICATION INFORMATION:
36 : TELEPHONE: 404-875-8817
37 : TELEFAX: 404-875-8505
38 : INFORMATION FOR SEQ ID NO: 10:
39 : SEQUENCE CHARACTERISTICS:
40 : LENGTH: 5110 base pairs
41 : TYPE: nucleic acid
42 : STRANDEDNESS: double
43 :
44 :
45 :

```



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1 UNITS: No. 5385834 applicable
2
3 FEATURE:
4
5 NAME/KEY: Inactive T7 f10 promoter mutant (-8T to A) located between nucle
6 LOCATION: 198 to 220
7 IDENTIFICATION METHOD: The clone was constructed from
8 IDENTIFICATION METHOD: pKR32-8 and the inserted "promoter" was sequenced
9 OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220
10
11 PUBLICATION INFORMATION:
12
13 AUTHORS: Ikeda, R.A., and Warshamana, G. S.
14 TITLE: Selection and Characterization of a Mutant T7
15 TITLE: RNA Polymerase that Recognizes an Expanded Range
16
17 JOURNAL: Biochemistry
18
19 VOLUME: 32
20
21 ISSUE: 35
22 PAGES: 9115-9124
23 DATE: Sept. 7, 1993
24
25 DOCUMENT NUMBER:
26
27 FILING DATE:
28
29 PUBLICATION DATE:
30
31 DOCUMENT NUMBER:
32
33 FILING DATE:
34
35 PUBLICATION DATE:
36
37 RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110
38
39 US-08-106-433A-11

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Db 1371 AGGCATCAATAAAGCAAGGCTCAGTCGAAGACTGGGCTTTCGTTTATCTGTGT 1430
Qy 1447 ttgtcgtgaacgctcttcctgaagtagacaatcccgaggagcgagattgaagttgcg 1506
Db 1431 ttgtcgtgaacgctcttcctgaagtagacaatcccgaggagcgagattgaagttgcg 1490
Qy 1507 aagcaagagcccgagggttgcgaggcagagcccgccataactgcccaggaatcaatt 1566
Db 1491 AAGCAAGGCCCCGAGGGTGGCGGAGAGCCGCCCATTAACCTGCCAGGCATCAAAAT 1550
Qy 1567 aagcaagagccatctgaagatgagcttttcgcttctacaactcttcctgcgc 1626
Db 1551 AAGCAAGAGCCATCTGACGAGTGGCTTTTGGCTTCTCAAACTCTTCGTCGTC 1610
Qy 1627 atatctacaagcattccccccacagatacgttaactagctcgttttgatcaggaa 1686
Db 1611 ATATCTACAAGCCATCCGCCCCACAGATACGGTAAACTAGCCCTGTTTTCATCAGGAAA 1670
Qy 1687 gcagctat 1694
Db 1671 GCAGCTGT 1678

RESULT 12
US-08-106-433A-14
; Sequence 14, Application US/08106433A
; Patent No. 5385834
; GENERAL INFORMATION:
; APPLICANT: Richard A. Ikeda
; TITLE OF INVENTION: Mutant T7 RNA Polymerase Gp1(Lys222)
; TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Deveau, Colton, and Marquis
; STREET: Two Midtown Plaza, Suite 1400,
; STREET: 1360 Peachtree St., NE
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: USA
; ZIP: 30309
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: McIntosh 7.1
; SOFTWARE: Microsoft Word 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/106.433A
; FILING DATE: 08/13/93
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: No. 5385834 Applicable
; FILING DATE: No. 5385834 Applicable
; ATTORNEY/AGENT INFORMATION:
; NAME: Deveau, Colton, and Marquis
; NAME: Colton, Laurence P.
; REGISTRATION NUMBER: Reg. No. 5385834 33,371
; REFERENCE/DOCKET NUMBER: 10733-161
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 404-875-8817
; TELEFAX: 404-875-8505
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS: 14:
; LENGTH: 5110 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: other nucleic acid
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: NO. 5385834 applicable
; ORIGINAL SOURCE:
; ORGANISM: No. 5385834 applicable

STRAIN: No. 5385834 applicable
INDIVIDUAL ISOLATE: No. 5385834 applicable
DEVELOPMENTAL STAGE: No. 5385834 applicable
HAPLOTYPE: No. 5385834 applicable
TISSUE TYPE: No. 5385834 applicable
CELL TYPE: No. 5385834 applicable
ORGANELLE: No. 5385834 applicable
IMMEDIATE SOURCE:
LIBRARY: No. 5385834 applicable
CLONE: pCM-P1031
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
FEATURE:
NAME/KEY: Inactive T7 fl10 promoter mutant (-7C to A) located between nucle
LOCATION: 198 to 220
IDENTIFICATION METHOD: The clone was constructed from
IDENTIFICATION METHOD: PKR232-8 and the inserted "promoter" was sequenced.
OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220
PUBLICATION INFORMATION:
AUTHORS: Ikeda, R.A., Chang, L.L., and Warrhamana, G.S.
TITLE: Selection and Characterization of a Mutant T7
TITLE: RNA Polymerase that Recognizes an Expanded Range
TITLE: of T7-like Promoters
JOURNAL: Biochemistry
VOLUME: 32
ISSUE: 35
PAGES: 9115-9124
DATE: Sept. 7, 1993
DOCUMENT NUMBER:
FILING DATE:
DOCUMENT DATE:
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110
US-08-106-433A-14

Query Match 22.5%; Score 404; DB 1; Length 5110;
Best Local Similarity 96.5%; Pred. No. 8.9e-91;
Matches 413; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 1267 agagtcgactgcagcagatgcgaagcttggctccactaccacccagccgaactcgaag 1326
Db 1251 AGAATTGGCTGGCGGAGTACGCGGCTGCCACTGACCCCATGCCGAACTCAGAAG 1310
Qy 1327 tgaacgcccgtacgcccgaatgtagtgggtctcccatgcgaagtaggaagcgc 1386
Db 1311 TGAAGCCGCTAGCGCGCATGAGTGGGTGCTGCCATCGAGAGTAGGAAGTGGC 1370
Qy 1387 aggcataaataaagcgaagcgcagtcgaagcagcagcagcagcagcagcagcagc 1446
Db 1371 AGGCATCAATAAAGCAAGGCTCAGTCGAAAGACTGGGCTTTCGTTTATCTGTGT 1430
Qy 1447 ttgtcgtgaacgctcttcctgaagtagacaatcccgaggagcgagattgaagttgcg 1506
Db 1431 ttgtcgtgaacgctcttcctgaagtagacaatcccgaggagcgagattgaagttgcg 1490
Qy 1507 aagcaagagcccgagggttgcgaggcagagcccgccataactgcccaggaatcaatt 1566
Db 1491 AAGCAAGGCCCCGAGGGTGGCGGAGAGCCGCCCATTAACCTGCCAGGCATCAAAAT 1550
Qy 1567 aagcaagagccatctgaagatgagcttttcgcttctacaactcttcctgcgc 1626
Db 1551 AAGCAAGAGCCATCTGACGAGTGGCTTTTGGCTTCTCAAACTCTTCGTCGTC 1610
Qy 1627 atatctacaagcattccccccacagatacgttaactagctcgttttgatcaggaa 1686
Db 1611 ATATCTACAAGCCATCCGCCCCACAGATACGGTAAACTAGCCCTGTTTTCATCAGGAAA 1670
Qy 1687 gcagctat 1694


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: COUNTRY: U.S.A.
: ZIP: 53717-1914
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/801,344
: FILING DATE:
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Sara, Charles S.
: REFERENCE/DOCKET NUMBER: 09820.037
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 608-831-2100
: TELEFAX: 608-831-2106
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 4476 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: circular
: MOLECULE TYPE: DNA (genomic)
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
: ORIGINAL SOURCE:
: ORGANISM: Vector pSE380
: US-08-801-344-2

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Query Match      18.6%: Score 332.8; DB 3; Length 4476;
Best Local Similarity 92.8%: Pred. No. 3.4e-73;
Matches 349; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

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QY 1267 agagtcgacccctgcagcagcttggtccacccctgaccccatgcccgaactcagaag 1326
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DB 703 AGAATTTGCGTGGGGCGAGTAGCGCGGTGTCCACCTGACCCCATGCGCAACTAGAAAG 762

QY 1327 tgaacgcgcgtagcgcgagtagtgtggtgtctcccatgagagtaggaaactgcc 1386
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DB 763 TGAACGCGCGTAGCGCGCATGTGTGGGTCTCCCATGCGAGTAGGGAATCGCC 822

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DB 823 AGGATCAATAAATAAGAAAGGCTAGTGAAGAAGCTGGCTTTCGTTTATCTGTGT 882

QY 1447 ttgtcgtgtaacgctctctcgtagtagaacaatccgcgcggagcgagattgaacgttcg 1506
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QY 1567 aagcaagaagcattcctcgtatgagatgagcttttggttcttacaactcttcgtgtc 1626
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1003 AAGCAGAAAGGCGATCTCAGAGATGCGCTTTTGGCTTCAAAACCTTTTGTATT 1062

QY 1627 atattacaagcattc 1642
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DB 1063 TTTTCTAATATACATTTC 1078

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RESULT 15
US-09-498-599-2
: Sequence 2, Application US/09498599
: Patent No. 6303352
: GENERAL INFORMATION:
: APPLICANT: Cameron, Douglas C.
: APPLICANT: Shaw, Anita J.
: APPLICANT: Altaras, Nedim E.
: TITLE OF INVENTION: MICROBIAL PRODUCTION OF

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: TITLE OF INVENTION: 1,2-PROPANEDIOL FROM SUGAR
: NUMBER OF SEQUENCES: 11
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Demilt Ross & Stevens S.C.
: STREET: 8000 Excelsior Drive, Suite 401
: CITY: Madison
: STATE: WI
: COUNTRY: U.S.A.
: ZIP: 53717-1914
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/498,599
: FILING DATE:
: CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
: NAME: Sara, Charles S.
: REFERENCE/DOCKET NUMBER: 09820.037
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 608-831-2100
: TELEFAX: 608-831-2106
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 4476 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: circular
: MOLECULE TYPE: DNA (genomic)
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
: ORIGINAL SOURCE:
: ORGANISM: Vector pSE380
: US-09-498-599-2

```

```

Query Match      18.6%: Score 332.8; DB 4; Length 4476;
Best Local Similarity 92.8%: Pred. No. 3.4e-73;
Matches 349; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

```

```

QY 1267 agagtcgacccctgcagcagcttggtccacccctgaccccatgcccgaactcagaag 1326
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 703 AGAATTTGCGTGGGGCGAGTAGCGCGGTGTCCACCTGACCCCATGCGCAACTAGAAAG 762

QY 1327 tgaacgcgcgtagcgcgagtagtgtggtgtctcccatgagagtaggaaactgcc 1386
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 763 TGAACGCGCGTAGCGCGCATGTGTGGGTCTCCCATGCGAGTAGGGAATCGCC 822

QY 1387 aggcataaataaagaagaagctcagtcgaagaagctggccttcgtttatcgttgt 1446
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 823 AGGATCAATAAATAAGAAAGGCTAGTGAAGAAGCTGGCTTTCGTTTATCTGTGT 882

QY 1447 ttgtcgtgtaacgctctcgtatgagacaatccgcgcggagcgagattgaacgttcg 1506
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 883 TTGTGCGTGAACGCTCTCTCTAGTAGAGCAAAATCCGCGGAGCGGATTGAACTTTCG 942

QY 1507 aagcaacgcccgcgaggtgtgctgagcagagcgcgcgcataaactgcaggaatcaat 1566
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 943 AAGCAACGCGCGGAGGCTGCGGAGAGAGAGCCCGCATTAACATGCGAGGATCAAAAT 1002

QY 1567 aagcaagaagcattcctcgtatgagatgagcttttggttcttacaactcttcgtgtc 1626
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1003 AAGCAGAAAGGCGATCTCAGAGATGCGCTTTTGGCTTCAAAACCTTTTGTATT 1062

QY 1627 atattacaagcattc 1642
   ||| ||| ||| |||
DB 1063 TTTTCTAATATACATTTC 1078

```

Search completed: September 17, 2002, 01:33:36

Job time: 13787 sec
